

Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

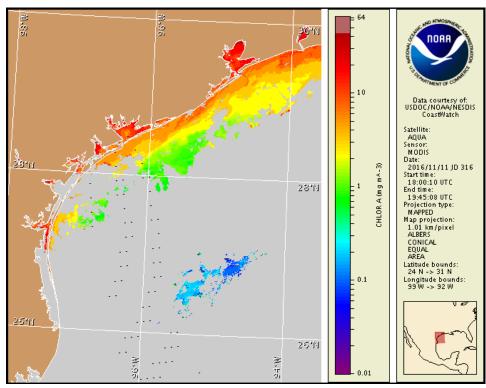
Monday, 14 November 2016

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Thursday, November 10, 2016



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from November 4 to 11: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at: http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

Conditions Report

Karenia brevis (commonly known as Texas red tide) ranges from not present to very low concentrations along the coast of Texas. No respiratory irritation is expected alongshore Texas Monday, November 14 through Monday, November 21.

Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations.

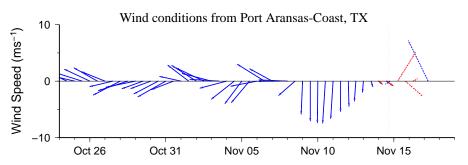
Analysis

Sampling from the Texas A&M University's Imaging FlowCytobot, located on the Port Aransas ship channel, indicates that *Karenia brevis* concentrations range between 'background' and 'very low' (TAMU; 11/7-11/14). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent ensemble imagery (MODIS Aqua, 11/11; shown left) is partially obscured by clouds along- and offshore Texas from Matagorda Island to the Rio Grande, limiting analysis. Elevated to high chlorophyll (2- $11\mu g/L$) is visible along- and off-shore from Sabine Pass to the Padre Island National Seashore region.

Forecast models based on predicted near-surface currents indicate a potential transport of 30km south from the Port Aransas region from November 11-17.

Davis, Lalime

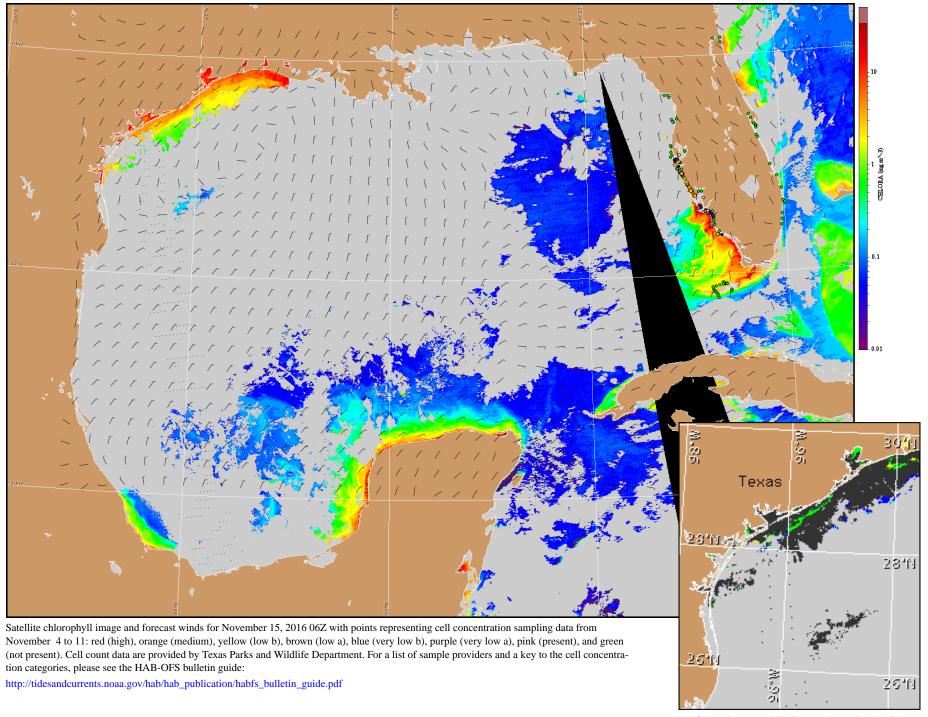


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

Baffin Bay to Port Aransas: East to southeast winds (5kn, 3m/s) today becoming south to southwest winds (5-10kn, 3-5m/s) tonight. West to northwest winds (10kn, 5m/s) Tuesday becoming north winds (5-10kn) Tuesday night. South to southeast winds (5-20kn, 3-10m/s) Wednesday through Friday becoming east to northeast winds (10-15kn, 5-8m/s) Friday night.

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive: http://tidesandcurrents.noaa.gov/hab/bulletins.html



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).